

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14805

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01J25/10 H01J23/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 827 192 A (TRAN ET AL) 2 May 1989 (1989-05-02)	26-28,30
A	column 4, line 26 - column 4, line 39; figure 5 column 4, line 61 - column 5, line 16; figure 6	1-25
A	US 5 280 216 A (MOURIER ET AL) 18 January 1994 (1994-01-18) the whole document	1-25

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the International search

9 February 2005

Date of mailing of the International search report

21/02/2005

Name and mailing address of the ISA

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of Invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25

Klystron amplifier operated in whispering gallery modes

2. claims: 26-30

Input/output coupling structure for a klystron

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14805

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4827192	A	02-05-1989	FR DE EP JP JP JP	2596199 A1 3761464 D1 0239466 A1 2085128 C 7118271 B 62229735 A		25-09-1987 22-02-1990 30-09-1987 23-08-1996 18-12-1995 08-10-1987
US 5280216	A	18-01-1994	FR DE DE EP JP	2672730 A1 69204866 D1 69204866 T2 0499514 A1 6028982 A		14-08-1992 26-10-1995 08-02-1996 19-08-1992 04-02-1994